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FFW  
PATENT

**TRANSMITTAL LETTER**

Attorney Docket No.	Serial No.
136P26US01	10/790,336

MS: Amendments  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In re Application of:	Gilbert P. Brunette et al		
Serial No.:	10/790,336	Examiner:	
Confirmation No.:		Art Unit:	
Filed:	March 1, 2004		
For:	A NOVEL RADIO FREQUENCY (RF) CIRCUIT BOARD TOPOLOGY		
We are transmitting the following documents:			
Return Postcard Transmittal Letter [1 page] Information Disclosure Statement (37 CFR 1.97(b)) [2 pages] Information Disclosure Statement by Applicant [2 pages] Copies of seven (7) prior art articles			

**Please charge Deposit Account 50-0549 for any fees under 37 CFR §1.16 and §1.17 that may be required during the pendency of this application. This authorization includes the fee for any extension of time under 37 CFR §1.136(a) that may be necessary. To the extent any such extension should become necessary it is hereby requested.**

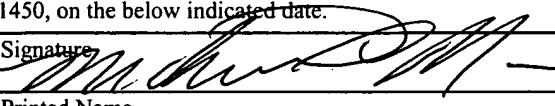
Respectfully submitted,

Registration No. 30,087	Direct Dial 612-331-7415	
Date: June 1, 2004		Michael L. Mau

United States Patent and Trademark Office

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Pursuant to 37 CFR 1.8, I certify that this correspondence is being deposited in the United States mail, addressed to: MS: Amendments, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the below indicated date.	
	Signature 
Date of Mailing June 1, 2004	Printed Name Michael L. Mau



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Gilbert P. Brunette et al. Examiner:  
Serial No.: 10/790,336 Art Unit:  
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TOPOLOGY

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INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

MS: Amendments  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted within three months of the filing date of the above-identified application. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with the Notice signed July 11, 2003 at 1276 OG 55, copies of the U.S. patents listed on the enclosed Form 1449 are not enclosed. In accordance with 37 C.F.R. §1.98(a)(2), a copy of each document or other information listed on the enclosed Form 1449 is provided.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked

as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please charge any additional fees or credit any overpayment to Deposit Account  
No. 500549.

Respectfully submitted,

GILBERT P. BRUNETTE ET AL

Date: 6-1-04

By:   
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MLM:das

Substitute for form 1449/PTO

JUN 04 2004

C37-30

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use as many sheets as necessary)

Sheet

1

of

2

## Complete if Known

Application Number	10/790,336
Filing Date	03/01/2004
First Named Inventor	Brunette et al
Art Unit	
Examiner Name	
Attorney Docket Number	136P26US01

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5,522,132	06-04-1996	Mattei	
		US- 5,920,242	07-06-1999	Oya et al	
		US- 6,031,188	02-29-2000	Pluymers et al	
		US- 6,172,305	01-09-2001	Tanahashi	
		US- 6,184,477	02-06-2001	Tanahashi	
		US- 6,329,604	12-11-2001	Koya	
		US- 6,356,173	03-12-2002	Nagata et al	
		US- 6,388,206	05-14-2002	Dove et al	
		US- 6,441,471	08-27-2002	Maetani	
		US- 6,541,712	04-01-2003	Gately et al	
		US-			

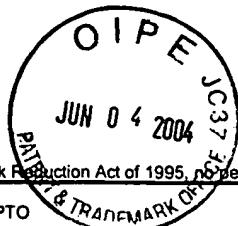
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

## Complete if Known

Application Number	10/790,336				
Filing Date	03-01-2004				
First Named Inventor	Brunette et al				
Art Unit					
Examiner Name					
Sheet	2	of	2	Attorney Docket Number	136P26US01

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		SARFARAZ et al; Interconnect Characterization...Digital Applications; (rambus.com); IEEE 9th Topical Meeting Electrical Performance; Oct23-25, 2000pp1-4; Mountain View, CA, US	
		CHEN et al; Via and Return Path Discontinuity Impact on High Speed Digital Signal Quality; EPEP Conf. www.sigriy.com; Oct 2000; pp1-4	
		ULTRACAD DESIGN INC.; The Effects of Vias on PCB Traces; ultracad.com; 994; pp1-6; Bellevue, WA, US	
		COHEN, TOM; Practical Guidelines for the implementation of Back Drilling Plated Through Hole Vias in Multi-gigabit Board Applications; DesignCon 2003; pp1-10; Nashua, NH, US	
		ZEGARAC, Zoran; Signal Integrity issue of dense pin-field and via internconnections; pp1-4; University of Western Australia	
		COHEN et al; Signal Integrity Considerations for High Speed Data Transmission in a Printed Circuit Board System; IMAPS 1998; www.teradyne.com;pp1-6	
		TALLO, Joseph; Designing an X-Band T/R Module Package; Kyocera; Ansoft 2003 HFSS Users Workshop; www.ansoft.com; pp1-32	

Examiner Signature	Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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